

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 17

Application Number	09/784,383
Filing Date	February 15, 2001
First Named Inventor	John C. Voellmicke
Group Art Unit	
Examiner Name	
Attorney Docket Number	DEP0468

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document mm-dd-yyyy	Pages, Columns, Lines, where relevant passages or relevant figures appear
		Number	Kind Code ² (if known)			
RL	AA	1,894,274	B1	R. P. Jacques	01-17-1933	
RL	AB	2,123,712	B1	O. B. Clark	07-12-1938	
RL	AC	2,394,488	B1	L.C. Rotter et al.	02-05-1946	
RL	AD	2,425,867	B1	E. W. Davis	08-19-1947	
RL	AE	2,435,647	B1	M. O. Engseth	02-10-1948	
RL	AF	2,497,762	B1	E. W. Davis	02-14-1950	
RL	AG	2,521,569	B1	E. W. Davis	09-05-1950	
RL	AH	3,572,556	B1	Peter Pogacar	03-30-1971	
RL	AI	3,850,158	B1	Elias George Elias et al.	11-26-1974	
RL	AJ	4,077,494	B1	Robin W. Spaude et al.	03-07-1978	
RL	AK	4,146,334	B1	Richard Farrell	03-27-1979	
RL	AL	4,168,787	B1	Eugene E. Stamper	09-25-1979	

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document mm-dd-yyyy	Pages, Columns, Lines, where relevant passages or relevant figures appear	T ⁶
		Office ³	Number ⁴	KindCode ⁵				
RL	BA	EP	0242672	A2	Merck Patent GMBH	09-26-1989		
RL	BB	FR	2606282	A1	Ecole Nale Sup Ceramique Indle	05-13-1988		
RL	BC	DE	3730298	A1	Showa Denko KK	02-20-1990		
RL	BD	DE	3443167	A1	Orthoplast Endoprothetik	06-05-1986		
RL	BE	DE	4016135	A1		3-3-1992		
RL	BF	EP	0301759	A2	Pfizer Hospital Products Group, Inc.	07-20-1988		
RL	BG	EP	0425200	A1	Nobuo Nakabayashi	10-19-1990		

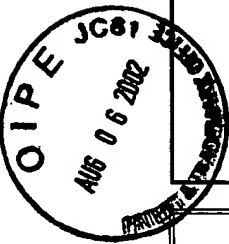
Examiner Signature	<i>R. L. [Signature]</i>	Date Considered	1/14/2003
--------------------	--------------------------	-----------------	-----------

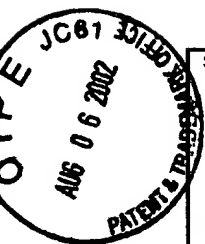
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231.

DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.





Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 2 of 17

Application Number	
Filing Date	February 15, 2001
First Named Inventor	John C. Voellmicke
Group Art Unit	
Examiner Name	
Attorney Docket Number	DEP0468

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document mm-dd-yyyy	Pages, Columns, Lines, where relevant passages or relevant figures appear
		Number	Kind Code ² (if known)			
RL	AM	4,239,113	B1	Albert Gross et al.	12-16-1980	
RL	AN	4,268,639	B1	Hartmut Seidel et al.	05-19-1981	
RL	AO	4,277,184	B1	Alan Solomon	07-07-1981	
RL	AP	4,298,144	B1	Klaus A. Pressl	11-03-1981	
RL	AQ	4,338,925	B1	Jo Miller	07-13-1982	
RL	AR	4,341,691	B1	David A. Anuta	07-27-1982	
RL	AS	4,359,049	B1	Heinz Redl et al.	11-16-1982	
RL	AT	4,373,217	B1	Klaus Draenert	02-15-1983	
RL	AU	4,403,989	B1	Terrence B. Christensen et al.	09-13-1983	
RL	AV	4,404,327	B1	Aldo M. Crugnola et al.	09-13-1983	
RL	AW	4,405,249	B1	John T. Scales	09-20-1983	
RL	AX	4,487,602	B1	Terrence B. Christensen et al.	12-11-1984	

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document mm-dd-yyyy	Pages, Columns, Lines, where relevant passages or relevant figures appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵				
RL	BH	EP	0511868	A2	Onoda Cement Company, Ltd.	04-11-1992		
RL	BI	EP	0190504	A2	Johnson Matthey Public Limited Co.	03-13-86		
RL	BJ	JP	10146559		Imaizumi Toru et al.	06-02-1998		
RL	BK	GB	2156824	A	Meishintoryo Co. Ltd.	10-16-1985		
RL	BL	WO	99/18866	A1	Parallax Medical, Inc.	04-22-1999		
RL	BM	WO	99/49819	A1	Parallax Medical, Inc.	10-07-1999		
RL	BN	WO	99/37212	A1	Kyphon Inc.	07-29-1999		

Examiner Signature	<i>RL</i>	Date Considered	1/13/2003
--------------------	-----------	-----------------	-----------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231.

DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 3 of 17

Application Number	
Filing Date	February 15, 2001
First Named Inventor	John C. Voellmicke
Group Art Unit	
Examiner Name	
Attorney Docket Number	DEP0468

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document mm-dd-yyyy	Pages, Columns, Lines, where relevant passages or relevant figures appear
		Number	Kind Code ² (if known)			
RL	AY	4,503,169	B1	Ronald M. Randklev	03-05-1985	
RL	AZ	4,543,966	B1	Abul B. M. A. Islam et al.	10-01-1985	
RL	AAA	4,546,767	B1	Carl W. Smith	10-15-1985	
RL	AAB	4,576,152	B1	Maurice E. Miller et al.	03-18-1986	
RL	AAC	4,588,583	B1	Hanns Pietsch et al.	05-13-1986	
RL	AAD	4,593,685	B1	William F. McKay et al.	06-10-1986	
RL	AAE	4,595,006	B1	Dennis W. Burke, et al.	06-17-1986	
RL	AAF	4,600,118	B1	Gerald D. Martin	07-15-1986	
RL	AAG	4,642,099	B1	Ian R. Phillips et al.	02-10-1987	
RL	AAH	4,651,904	B1	Alfred V. Schuckmann	03-24-1987	
RL	AAI	4,664,298	B1	Jerry D. Shew	05-12-1987	
RL	AAJ	4,664,655	B1	Norman Orentreich et al.	05-12-1987	

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document mm-dd-yyyy	Pages, Columns, Lines, where relevant passages or relevant figures appear	T ⁶
		Office ³	Number ⁴	KindCode ⁵				
RL	BO	WO	00/56254	A1	Parallax Medical, Inc.	09-28-2000		
RL	BP	WO	01/76514	A2	Kyphon Inc.	10-18-2001		
RL	BQ	WO	02/00143	A1	Kyphon Inc.	01-03-2002		
RL	BR	DE	2947875	A1	Reimer	04-06-1981		
RL	BS	FR	2690332	A	Loufti	10-27-1993		

Examiner Signature	<i>R. L. [Signature]</i>	Date Considered	1/13/2003
--------------------	--------------------------	-----------------	-----------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231.

DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

RECEIVED
AUG - 8 2002
TECHNOLOGY CENTER R3100

PTO/SB/08A (08-00)

PTO/SB/08A (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 5 of 17

<i>Application Number</i>	
<i>Filing Date</i>	February 15, 2001
<i>First Named Inventor</i>	John C. Voellmicke
<i>Group Art Unit</i>	
<i>Examiner Name</i>	
<i>Attorney Docket Number</i>	DEP0468

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document mm-dd-yyyy	Pages, Columns, Lines, where relevant passages or relevant figures appear
		Number	Kind Code ² (if known)			
RL	AAW	4,813,870	B1	James F. Pitzen et al.	03-21-1989	RECEIVED AUG - 8 2002 TECHNOLOGY CENTER R3700
RL	AAX	4,826,053	B1	Wilhelm A. Keller	05-02-1989	
RL	AAY	4,830,227	B1	Martin F. Ball et al.	05-16-1989	
RL	AAZ	4,837,279	B1	Nestor A. Arroyo	06-06-1989	
RL	ABA	4,892,231	B1	Martin F. Ball	01-09-1990	
RL	ABB	4,910,259	B1	Ture Kindt-Larsen et al.	03-20-1990	
RL	ABC	4,927,866	B1	Robert Purmann et al.	05-22-1990	
RL	ABD	4,946,077	B1	LaVerne R. Olsen	08-07-1990	
RL	ABE	4,966,601	B1	Klaus Draenert	10-30-1990	
RL	ABF	4,969,888	B1	Arie Scholten et al.	11-13-1990	
RL	ABG	4,973,334	B1	Edeltrand Ziemann	11-27-1990	
RL	ABH	4,978,336	B1	Emil E. Capozzi et al.	12-18-1990	

FOREIGN PATENT DOCUMENTS

[illegible]

Examiner Signature		Date Considered	1/13/2003
-----------------------	---	--------------------	-----------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Unique citation designation number. 2 See attached Kinds of U.S. Patent Documents. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231.

DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 6 of 17

Application Number

Filing Date

First Named Inventor

Group Art Unit

Examiner Name

Attorney Docket Number

February 15, 2001

John C. Voellmicke

DEP0468

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document mm-dd-yyyy	Pages, Columns, Lines, where relevant passages or relevant figures appear
		Number	Kind Code ² (if known)			
RL	ABI	4,994,065	B1	Rebecca Gibbs et al.	12-10-1991	RECEIVED AUG - 8 2002 TECHNOLOGY CENTER 38710
RL	ABJ	5,022,563	B1	Michael Marchitto et al.	06-11-1991	
RL	ABK	5,049,157	B1	Heinz Mittelmeier et al.	06-11-1991	
RL	ABL	5,071,040	B1	Joseph E. Laptewicz, Jr.	12-10-1991	
RL	ABK	5,108,403	B1	Mark S. Stern	04-28-1992	
RL	ABN	5,108,404	B1	Arie Scholten et al.	04-28-1992	
RL	ABO	5,114,240	B1	Ture Kindt-Larsen et al.	05-19-1992	
RL	ABP	5,125,971	B1	Tohru Nonami et al.	06-30-1992	
RL	ABQ	5,141,496	B1	Tino Dalto et al.	08-25-1992	
RL	ABR	5,181,918	B1	Gerd Brandhorst et al.	01-26-1993	
RL	ABS	5,190,191	B1	Mark E. Reyman	03-02-1993	
RL	ABT	5,217,147	B1	John G. Kaufman	06-08-1993	

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document mm-dd-yyyy	Pages, Columns, Lines, where relevant passages or relevant figures appear	T ⁶
		Office ³	Number ⁴	KindCode ⁵				

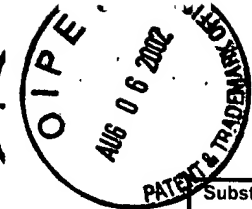
Examiner Signature		Date Considered	1/13/2003
-----------------------	--	--------------------	-----------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231.

DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 7 of 17

Application Number	
Filing Date	February 15, 2001
First Named Inventor	John C. Voellmick
Group Art Unit	
Examiner Name	
Attorney Docket Number	DEP0468

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document mm-dd-yyyy	Pages, Columns, Lines, where relevant passages or relevant figures appear
		Number	Kind Code ² (if known)			
RL	ABU	5,242,983	B1	Joseph P. Kennedy et al.	09-07-1993	TECHNOLOGY CENTER F3700 AUG - 8 2002 RECEIVED
RL	ABV	5,252,301	B1	Thomas Nilson et al.	10-12-1993	
RL	ABW	5,258,420	B1	Jessica Posey-Dowty et al.	11-02-1993	
RL	ABY	5,264,215	B1	Nobuo Nakabayashi et al.	11-23-1993	
RL	ABY	5,275,214	B1	Kevin M. Rehberger	01-04-1994	
RL	ABZ	5,276,070	B1	Nestor A. Arroyo	01-04-1994	
RL	ACA	5,279,555	B1	Arther L. Lifshy	01-18-1994	
RL	ACB	5,328,262	B1	Lars A. a. Lidgren et al.	07-12-1994	
RL	ACC	5,331,972	B1	Suresh Wadhwani et al.	07-26-1994	
RL	ACD	5,334,626	B1	Steve T. Lin	08-02-1994	
RL	ACE	5,336,699	B1	Francis W. Cooke et al.	08-09-1994	
RL	ACF	5,344,232	B1	Charles L. Nelson et al.	09-06-1994	

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document mm-dd-yyyy	Pages, Columns, Lines, where relevant passages or relevant figures appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵				

Examiner Signature	<i>R. L. ...</i>	Date Considered	1/15/2003
-----------------------	------------------	--------------------	-----------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231.

DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

PTO/SB/08A (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
to a collection of information unless it displays a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 8 of 17

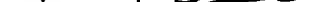
<i>Application Number</i>	
<i>Filing Date</i>	February 15, 2001
<i>First Named Inventor</i>	John C. Voellmicke
<i>Group Art Unit</i>	
<i>Examiner Name</i>	
<i>Attorney Docket Number</i>	DEP0468

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document mm-dd-yyyy	Pages, Columns, Lines, where relevant passages or relevant figures appear
		Number	Kind Code ² (if known)			
RL	ACG	5,368,046	B1	Frank A. Scarfone et al.	11-29-1994	<div> RECEIVED AUG - 8 2002 TECH NO. LOGY CENTER F3700 </div>
RL	ACH	5,370,221	B1	Bent Magnusson et al.	12-06-1994	
RL	ACI	5,372,583	B1	Craig P. Roberts et al.	12-13-1994	
RL	ACJ	5,374,427	B1	Wolfgang Stille et al.	12-20-1994	
RL	ACK	5,385,081	B1	Kirk Sneddon	01-31-1995	
RL	ACI	5,385,566	B1	Gosta Ullmark	01-31-1995	
RL	ACM	5,398,483	B1	Daniel B. Smith et al.	03-21-1995	
RL	ACN	5,415,474	B1	Charles Nelson et al.	05-16-1995	
RL	ACO	5,431,654	B1	David M. Nic	07-11-1995	
RL	ACP	5,450,924	B1	Tien-Tsai Tseng	09-19-1995	
RL	ACQ	5,456,267	B1	John G. Stark	10-10-1995	
RL	ACR	5,468,245	B1	Joseph H. Vargas, III	11-21-1995	

FOREIGN PATENT DOCUMENTS

[illegible]

Examiner Signature		Date Considered	1/17/2003
-----------------------	---	--------------------	-----------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Unique citation designation number. 2 See attached Kinds of U.S. Patent Documents. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231.

DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

PTO/SB/08A (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 10 of 17

Application Number

Filing Date

February 15, 2001

First Named Inventor

John C. Voellmicke

Group Art Unit

Examiner Name

Attorney Docket Number

DEP0468

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document mm-dd-yyyy	Pages, Columns, Lines, where relevant passages or relevant figures appear
		Number	Kind Code ² (if known)			
RL	ADE	5,588,745	B1	Kazuna Tanaka et al.	12-31-1996	
RL	ADI	5,624,184	B1	Kwan-Ho Chan	04-29-1997	
RL	ADG	5,638,997	B1	Michael E. Hawkins, et al.	06-17-1997	
RL	ADH	5,660,186	B1	Joseph S. Bachir	10-28-1997	
RL	ADI	5,681,317	B1	Salvatore Caldarise	10-28-1997	
RL	ADJ	5,698,611	B1	Junichi Okada et al.	12-16-1997	
RL	ADK	5,718,707	B1	W. E. Michael Mekhail	02-17-1998	
RL	ADL	5,763,092	B1	Dusuk Duke Lee et al.	06-09-1998	
RL	ADM	5,779,356	B1	Kwan-Ho Chan	07-14-1998	
RL	ADN	5,795,922	B1	Hany W. Demian et al.	08-18-1998	
RL	ADO	5,800,169	B1	Ernst Muhlbauer	09-01-1998	
RL	ADP	5,824,087	B1	Richard Malcom Aspden	10-20-1998	

RECEIVED
AUG - 8 2002
TECHNOLOGY CENTER R3700**FOREIGN PATENT DOCUMENTS**

Examiner Initials	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document mm-dd-yyyy	Pages, Columns, Lines, where relevant passages or relevant figures appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵				

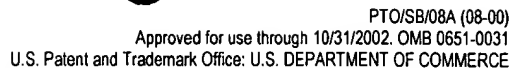
Examiner Signature	<i>RL</i>	Date Considered	1/13/2003
-----------------------	-----------	--------------------	-----------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231.

DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449A/PTO

(use as many sheets as necessary)

Sheet 11 of 17

<i>Application Number</i>	
<i>Filing Date</i>	February 15, 2001
<i>First Named Inventor</i>	John C. Voellmicke
<i>Group Art Unit</i>	
<i>Examiner Name</i>	
<i>Attorney Docket Number</i>	DEP0468

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document mm-dd-yyyy	Pages, Columns, Lines, where relevant passages or relevant figures appear
		Number	Kind Code ² (if known)			
RL	ADQ	5,826,753	B1	Kenneth L. Fehlig	10-27-1998	
RL	ADR	5,829,875	B1	Gerald W. Hagel et al.	11-03-1998	
RL	ADS	5,876,116	B1	Donald Barker et al.	03-02-1999	
RL	ADT	5,884,818	B1	Norman Campbell	03-23-1999	
RL	ADU	5,893,488	B1	Stephen H. Hoag, et al.	04-13-1999	
RL	ADV	5,902,839	B1	Eugene P. Lautenschlager et al.	05-11-1999	
RL	ADW	5,918,702	B1	Bao Cheng et al.	07-06-1999	
RL	ADX	5,918,770	B1	James Owen Camm et al.	07-06-1999	
RL	ADY	5,925,051	B1	W.E. Michael Mikhail	07-20-1999	
RL	ADZ	5,928,239	B1	Sohail K. Mirza	07-27-1999	
RL	AEA	5,931,347	B1	Mark A. Haubrich	08-03-1999	
RL	AEB	5,954,671	B1	Michael J. O'Neill	09-21-1999	

FOREIGN PATENT DOCUMENTS

[illegible]

Examiner Signature	<i>R. L. ...</i>	Date Considered	1/13/2003
-----------------------	------------------	--------------------	-----------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Unique citation designation number. 2 See attached Kinds of U.S. Patent Documents. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231.

DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

PTO/SB/08A (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 13 of 17

Application Number	
Filing Date	February 15, 2001
First Named Inventor	John C. Voellmicke
Group Art Unit	
Examiner Name	
Attorney Docket Number	DEP0468

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document mm-dd-yyyy	Pages, Columns, Lines, where relevant passages or relevant figures appear
		Number	Kind Code ² (if known)			
RL	AEO	6,033,411	B1	Howard Preissman	03-07-2000	
	AEP	6,040,408	B1	Leo Hendrik Koole	03-21-2000	
	AEQ	6,042,262	B1	Mohammed Ali Hajianpour	03-28-2000	
	AER	6,049,026	B1	George Frederick Muschler	04-11-2000	
	AES	6,075,067	B1	Lars Ake Alvar Lidgren	06-13-2000	
	AET	6,080,579	B1	Edward Nathaniel Hanley, Jr. et al.	06-27-2000	
	AEU	6,080,801	B1	Klaus Draenert et al.	06-27-2000	
	AEV	6,116,773	B1	William M. Murray	09-12-2000	
	AEW	6,120,174	B1	Stephen H. Hoag et al.	09-19-2000	
V	AEX	6,132,396	B1	Richard D. Antanavich et al.	10-17-2000	
	AEY	6,139,509	B1	Hansen Yuan et al.	10-31-2000	
RL	AEZ	6,142,998	B1	Margaret E. Smith et al.	11-07-2000	

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document mm-dd-yyyy	Pages, Columns, Lines, where relevant passages or relevant figures appear	T ⁶
		Office ³	Number ⁴	KindCode ⁵				

Examiner Signature		Date Considered	1/14/2003
-----------------------	--	--------------------	-----------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231.

DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 14 of 17

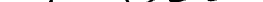
Application Number	
Filing Date	February 15, 2001
First Named Inventor	John C. Voellmicke
Group Art Unit	
Examiner Name	
Attorney Docket Number	DEP0468

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document mm-dd-yyyy	Pages, Columns, Lines, where relevant passages or relevant figures appear
		Number	Kind Code ² (if known)			
RL	AFA	6,149,655	B1	Brent R. Constantz et al.	11-21-2000	
RL	AFB	6,160,033	B1	Berthold Nies	12-12-2000	
RL	AFC	6,176,607	B1	Mohammed Ali Hajianpour	01-23-2001	
RL	AFD	6,210,031	B1	William M. Murray	04-03-2001	
RL	AFF	6,214,012	B1	Robert R. Karpan et al.	04-17-2001	
RL	AFF	6,127,581 6,217,581	B1	John Thomas Tolson	04-17-2001	
RL	AFG	6,221,029	B1	John M. Mathis et al.	04-24-2001	
RL	AFH	6,231,615	B1	Howard Preissman	05-15-2001	
RL	AFI	6,235,043	B1	Mark A. Reiley et al.	05-22-2001	
RL	AFJ	6,238,399	B1	Mathias Heller et al.	05-29-2001	
RL	AFK	6,241,734	B1	Robert M. Scribner et al.	06-05-2001	
RL	AFL	6,254,268	B1	Jack F. Long	07-03-2001	

FOREIGN PATENT DOCUMENTS

[illegible]

Examiner Signature		Date Considered	1/13/2003
-----------------------	---	--------------------	-----------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Unique citation designation number. 2 See attached Kinds of U.S. Patent Documents. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231.

DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

PTO/SB/08A (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 16 of 17

Application Number	
Filing Date	February 15, 2001
First Named Inventor	John C. Voellmicke
Group Art Unit	
Examiner Name	
Attorney Docket Number	DEP0468

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner's Initials*	Cite No. ¹	Include name of the author (in CAPITOL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
RL	CA	TIMOTHY J. KAUFMANN et al.; Age of Fracture and Clinical Outcomes of Percutaneous Vertebroplasty; American Journal of Neuroradiology; November/December 2001; volume 22; pp. 1860-1863;22	
FL	CB	PAUL F. HEINI et al.; Augmentation of mechanical properties in osteoporotic vertebral bones - a biomechanical investigation of vertebroplasty efficacy with different bone cements; EUR Spine Journal; January 27, 2001; volume 10; pp. 164-171; Springer-Verlag 2001	
RL	CC	STEPHEN M. BELKOFF, PHD et al.; The Biomechanics of Vertebroplasty, The Effect of Cement Volume on Mechanical Behavior; SPINE Volume 26; Number 14, November 14, 2001; pp. 1537-1541; ©2001, Lippincott Williams & Wilkins, Inc.	
RL	CD	DR. KLAUS-DIETER KUHN; Bone Cements, Up-to-Date Comparison of Physical and Chemical Properties of Commercial Materials; ©Springer-Verlag Heidelberg 2000; Germany	
RL	CE	JOHNSON & JOHNSON ORTHOPAEDICS; The CEMVAC Method; Raynham, MA	
RL	CF	J. R. DE WIJN et al.; Characterization of Bone Cements; The Institute of Dental Materials Science and Technology and the Department of Orthopaedics, Catholic University, Nijmegen, The Netherlands; 1975; 46, pp. 38-51	
RL	CG	AFSHIN GANGI, MD, PHD, et al.; Computed Tomography (CT) and Fluoroscopy-guided Vertebroplasty: Results and Complications in 187 Patients; Seminars in Interventional Radiology, Volume 16, Number 2, 1999; pp. 137-142; ©1999 Thieme Medical Publishers, Inc., New York, NY	
RL	CH	AFSHIN GANGI, MD et al.; CT-guided Interventional Procedures for Pain Management in the Lumbosacral Spine; Radiographics 1998; 18:621-633	
RL	CI	KYUNG SIK RYU, MD, et al. Dose-dependent epidural leakage of polymethylmethacrylate after percutaneous vertebroplasty in patients with osteoporotic vertebral compression fractures; J. Neurosurgery: Spine/Volume 96/January, 2002; pp. 56-61	
RL	CJ	L. E. JASPER, et al.; The Effect of Monomer-to-Powder Ratio on the Material Properties of Cranioplastic; Bone, Volume 25, No. 2 Supplement, August 1999;27S-29S; ©1999 Elsevier Science Inc.	
RL	CK	STEVEN P. COMBS, MD et al.; The effects of Barium Sulfate on the Polymerization Temperature and Shear Strength of Surgical Simplex P; Clinical Orthopaedics and Related Research; June 4, 1979; pp. 287-291; © J. B. Lippincott Co.	
RL	CL	J. A. WIMHURST; et al.; The effects of particulate bone cements at the bone-implant interface; The Journal of Bone & Joint Surgery; pp. 588-592; © 2001 British Editorial Society of Bone and Joint Surgery	
RL	CM	STEPHEN M. BELKOFF et al.; An Ex Vivo Biomechanical Evaluation of a Hydroxyapatite Cement for use with Kyphoplasty; American Journal of Neuroradiology, Volume 22, pp. 1212-1216; ©2001	
RL	CN	STEPHEN M. BELKOFF, PHD et al.; An Ex Vivo Biomechanical Evaluation of an Inflatable Bone Tamp Used in the Treatment of Compression Fracture; SPINE, Volume 26, Number 2, pp. 151-156; ©2001, Lippincott Williams & Wilkins, Inc.	
RL	CO	PARALLAX MEDICAL, INC.; Exflow Cement Delivery System; May 16, 2000	
RL	CP	S. M. BELKOFF et al.; An In Vitro Biomechanical Evaluation of Bone Cements Used in Percutaneous Vertebroplasty; Bone, Volume 25, No. 2 Supplement, August 1999; pp. 23S-26S; ©1999 Elsevier Science Inc.	
RL	CQ	J. A. WIMHURST et al.; Inflammatory responses of human primary macrophages to particulate bone cements in vitro; The Journal of Bone & Joint Surgery; Volume 83-B; pp. 278-282; ©2001 British Editorial Society of Bone and Joint Surgery	
RL	CR	I. H. LIEBERMAN, MD et al.; Initial Outcome and Efficacy of "Kyphoplasty" in the Treatment of Painful Osteoporotic Vertebral Compression Fractures; SPINE Volume 26, Number 14, pp. 1631-1638; ©2001	
RL	CS	KYPHON MEDICAL PROFESSIONALS; KyphX Products; November 8, 2001	
RL	CT	F. GRADOS et al.; Long-term observations of vertebral osteoporotic fractures treated by percutaneous vertebroplasty; Rheumatology 2000; Volume 39, pp. 1410-1414; ©2000; British Society of Rheumatology	
RL	CU	STEVEN R. GARFIN, MD et al.; New Technologies in Spine, Kyphoplasty and Vertebroplasty for the Treatment of Painful Osteoporotic Compression Fractures; SPINE Volume 26, Number 14, pp. 1511-1515; ©2001, Lippincott Williams & Wilkins, Inc.	
RL	CV	MARY E. JENSEN et al.; Percutaneous Polymethylmethacrylate Vertebroplasty in the Treatment of Osteoporotic Vertebral Body Compression Fractures: Technical Aspects; AJNR 18: 1897-1904; November 1997 ©American Society of Neuroradiology	

Examiner Signature		Date Considered	1/13/2003
--------------------	--	-----------------	-----------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231.

DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

RECEIVED
AUG 6 2002
TECHNOLOGY CENTER RD700

PTO/SB/08A (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
to a collection of information unless it displays a valid OMB control number.